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1 [PCI Symphony Network Cards](#)

Denny Fox

August 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(20.56 KB\)](#) Additional Information: [full citation](#), [index terms](#)

2 [Supporting IPv6 on a Linux server node](#)

Ibrahim Haddad, Marc Blanchet

August 2002 **Linux Journal**, Volume 2002 Issue 100

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(25.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

These changing times: set up your own IPv6 server and connect to the IPv6 world.

3 [A generalized screen management utility: automatic programming approach](#)

Y. S. Chua, C. N. Clinton

April 1982 **Proceedings of the 20th annual Southeast regional conference ACM-SE 20**

Publisher: ACM Press

Full text available: [pdf\(635.42 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

4 [Teaching kernel programming using Knoppix](#)

Donald Johnson

February 2006 **Journal of Computing Sciences in Colleges**, Volume 21 Issue 3

Publisher: Consortium for Computing Sciences in Colleges

Full text available: [pdf\(174.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The traditional platforms for teaching kernel programming have several disadvantages, including expensive hardware, disk partitioning, lack of current documentation, and obsolescence. Knoppix allows a free real Linux system that each student can use without installation, and without affecting permanently installed systems, such as Linux or Windows. With a floppy disk flashdrive, or hard disk partition to maintain programmer files, students can write, modify, and test kernel modules with relative ...

5 Role-based access control on the web



Joon S. Park, Ravi Sandhu, Gail-Joon Ahn

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: [pdf\(331.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

Keywords: WWW security, cookies, digital certificates, role-based access control

6 Fast detection of communication patterns in distributed executions



Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

7 Risks to the public: Risks to the public



Peter G. Neumann

May 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 3

Publisher: ACM Press

Full text available: [pdf\(177.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

8 Application performance and flexibility on exokernel systems



M. Frans Kaashoek, Dawson R. Engler, Gregory R. Ganger, Hector M. Briceño, Russell Hunt, David Mazières, Thomas Pinckney, Robert Grimm, John Jannotti, Kenneth Mackenzie

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: [pdf\(2.39 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9

Columns: Risks to the public in computers and related systems





Peter G. Neumann

March 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.54 MB\)](#) Additional Information: [full citation](#)

10 Distrbuted VEEs: The entropia virtual machine for desktop grids



Brad Calder, Andrew A. Chien, Ju Wang, Don Yang

June 2005 **Proceedings of the 1st ACM/USENIX international conference on Virtual execution environments**

Publisher: ACM Press

Full text available: [pdf\(280.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Desktop distributed computing allows companies to exploit the idle cycles on pervasive desktop PC systems to increase the available computing power by orders of magnitude (10x - 1000x). Applications are submitted, distributed, and run on a grid of desktop PCs. Since the applications may be malformed, or malicious, the key challenges for a desktop grid are how to 1) prevent the distributed computing application from unwarranted access or modification of data and files on the desktop PC, 2) contro ...

Keywords: desktop grids, grid computing, virtual machine

11 GLARE: A Grid Activity Registration, Deployment and Provisioning Framework

Mumtaz Siddiqui, Alex Villazon, Jurgen Hofer, Thomas Fahringer

November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**

Publisher: IEEE Computer Society

Full text available: [pdf\(1.43 MB\)](#) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#)

Resource management is a key concern for implementing effective Grid middleware and shielding application developers from low level details. Existing resource managers concentrate mostly on physical resources. However, some advanced Grid programming environments allow application developers to specify Grid application components at high level of abstraction which then requires an effective mapping between high level application description (activity types) and actual deployed software components ...

12 Imaging, security, configuration, and maintenance for the masses



Brandon Koeller, Karalee Woody

November 2005 **Proceedings of the 33rd annual ACM SIGUCCS conference on User services SIGUCCS '05**

Publisher: ACM Press

Full text available: [pdf\(79.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Educational Partnerships and Learning Technologies (EPLT) [1] at the University of Washington maintains and supports a fleet of approximately 1,000 general-access student computing workstations across campus. Our services include a broad range of software offerings, multimedia creation capabilities, research support, teaching support, and full featured in-person consulting. The distributed placement of the workstations in a variety of environments, and the high numbers of clients that use them p ...

Keywords: Faronics deep freeze, Windows active directory, general-access computing, group policy, imaging, scripting, software update services, symantec ghost, systems maintenance, workstation configuration

13 An Introduction to Using Linux as a Multipurpose Firewall

Jeff Regan

March 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(39.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Feeling insecure? Here's a guide for getting the protection you need.




14 How to Install and configure Oracle on Linux

Greg Flannery

November 1999 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(38.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A step by step demonstration of the Oracle installation process




15 The Rio file cache: surviving operating system crashes



Peter M. Chen, Wee Teck Ng, Subhachandra Chandra, Christopher Aycock, Gurushankar Rajamani, David Lowell

September 1996 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the seventh international conference on Architectural support for programming languages and operating systems ASPLOS-VII**, Volume 31 , 30 Issue 9 , 5

Publisher: ACM Press

Full text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One of the fundamental limits to high-performance, high-reliability file systems is memory's vulnerability to system crashes. Because memory is viewed as unsafe, systems periodically write data back to disk. The extra disk traffic lowers performance, and the delay period before data is safe lowers reliability. The goal of the Rio (RAM I/O) file cache is to make ordinary main memory safe for persistent storage by enabling memory to survive operating system crashes. Reliable memory enables a syste ...




16 Decentralizing a global naming service for improved performance and fault tolerance



D. R. Cheriton, T. P. Mann

May 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(3.19 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Naming is an important aspect of distributed system design. A naming system allows users and programs to assign character-string names to objects, and subsequently use the names to refer to those objects. With the interconnection of clusters of computers by wide-area networks and internetworks, the domain over which naming systems must function is growing to encompass the entire world. In this paper we address the problem of a global naming system, proposing a three-level naming ...



17 A framework for the assessment of operating systems for small computers



Hossein Saiedian, Munib Siddiqi

April 1996 **ACM SIGICE Bulletin**, Volume 21 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A number of high performance operating systems are now available for small computers



on different hardware platforms. These operating systems offer many advanced features formerly reserved for their workstation and minicomputer counterparts. This article surveys the most widely used of such operating systems, namely OS/2, Windows NT, Linux and Macintosh System 7.5. It provides an account on the history, design objectives and evolution of these operating systems and discusses their key features, ...

Keywords: CP/M, DOS, Linux, Macintosh, Microcomputers, OS/2, Operating Systems, Small Computer Systems, Windows, Windows NT

18 Recovery guarantees for Internet applications



Roger Barga, David Lomet, German Shegalov, Gerhard Weikum

August 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: [pdf\(997.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Internet-based e-services require application developers to deal explicitly with failures of the underlying software components, for example web servers, servlets, browser sessions, and so forth. This complicates application programming, and may expose failures to end users. This paper presents a framework for an application-independent infrastructure that provides recovery guarantees and masks almost all system failures, thus relieving the application programmer from having to deal with these f ...

Keywords: Exactly-once execution, application recovery, communication protocols, interaction contracts

19 General storage protection techniques: Ensuring data integrity in storage: techniques and applications



Gopalan Sivathanu, Charles P. Wright, Erez Zadok

November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**

Publisher: ACM Press

Full text available: [pdf\(217.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data integrity is a fundamental aspect of storage security and reliability. With the advent of network storage and new technology trends that result in new failure modes for storage, interesting challenges arise in ensuring data integrity. In this paper, we discuss the causes of integrity violations in storage and present a survey of integrity assurance techniques that exist today. We describe several interesting applications of storage integrity checking, apart from security, and discuss the im ...

Keywords: file systems, intrusion detection, storage integrity

20 Networks: Virtual machines - an idea whose time has returned: application to network, security, and database courses



William I. Bullers, Stephen Burd, Alessandro F. Seazzu

March 2006 **Proceedings of the 37th SIGCSE technical symposium on Computer science education SIGCSE '06**

Publisher: ACM Press

Full text available: [pdf\(78.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Virtual machines provide a secure environment within which students may install, configure, and experiment with operating system, network, and database software. This paper describes experiences teaching three advanced courses in system and network administration, information security and assurance, and database administration using

VMware workstation in a shared student laboratory. The paper describes benefits and challenges in course and lab configuration, security, and administration.

Keywords: VMware, database, network, security, virtual machines

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